



US-09-092-297-17.rai

•

11:11

Nov  
5, 633, 135  
5127/97



alignment_scores:	Quality: 477.00	length: 93
	Ratio: 5.129	Gaps: 0
Percent Similarity: 100.000		Percent Identity: 100.000
alignment_block:		
US-09-092-297-17 x AA56370	..	

Fri Jun 4 14:01:06 1999

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Page 2

Align seg 1/1 to: AA456370 from: 1 to: 412

```
25 ArgLeuLeuGlySerHisGlyAlaProValAlaProMetThrProTyrLe 41
|||||
3 AGGCTCTCTGCTACACGAGGCCCGCCAGTGGC.CCCATGACTCTTACTT 51
|||||
41 UetLeuGlyGlnProHisLysArgCysGlyAspLysPheTyrAspProl 58
|||||
52 GAGGCTGTGCGACGACACAGAGATGTGGGACAAAGTTCTAGACCCCC 101
|||||
58 euGlnHisCysCysTyrAspAlaValAlaProLeuAlaArgTyrGln 74
|||||
102 TCGAGCAGCTGTCTATGATGATGCGCTGCGCTTGGCCAGGACCCAG 151
|||||
152 AGCTGTGAACTGACCTTCAGATTTGCTTGAACAGTGTGCTGCTGCTG 201
|||||
31 ProMetThrValGlySerHisGlyAlaProValAlaProMetThrProTyrLe 106
|||||
202 GACCTTATGCTGAGCTGATTAACGAGACTGCGACTGACCGCCGACCT 251
|||||
108 erAspAspArgLeuGlyCysArgSerValSer 117
|||||
252 CGGATGACAGCGCTTGTGCGAGTGTGACG 280
|||||
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seq\_name: gb\_est6:AA024389

seq\_documentation\_block:

LOCUS AA024389 537 bp mRNA EST 30-JAN-1997  
DEFINITION ze74b01.r1 Soares fetal heart NBH19W Homo sapiens cDNA clone  
ACCESSION AA024389  
NID 91489332  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE

1 (bases 1 to 537)  
Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M.,  
Holman,M., Hultman,M., Kucaba,T., Le,M., Lennon,G., Marra,M.,  
Parsons,J., Rifkin,L., Rohlfing,T., Tan,F., Trevaeths,E.,  
Waterston,R., Williamson,A., Wohlmann,P. and Wilson,R.  
WashU-Merck EST Project  
Unpublished (1995)

TITLE  
JOURNAL  
COMMENT

Contact: Willson RK  
WashU-Merck EST Project  
Washington University School of Medicine  
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@wustl.edu  
This clone is available royalty-free through LBNL; contact the  
IMAGE Consortium (info@image.lbnl.gov) for further information.  
Insert Length: 708 Std Error: 0.00  
Seq primer: -28M13 rev2 from Amerisham  
High quality sequence stop: 337.  
Location/Qualifiers  
1. 537

FEATURES  
Source

/organism="Homo sapiens"  
/note="Organ: heart; Vector: pT73D (Pharmacia) with a  
modified polylinker; Site\_1: Not I; Site\_2: Eco RI; 1st  
strand cDNA was primed with a Not I - oligo(dT) primer [5'  
GTGACCATCGAATGAGCGAGCGCGCGATCTTTTCTTTTCTTTT 3']  
double-stranded cDNA was size selected, ligated to Eco RI  
adapters (Pharmacia), digested with Not I and cloned into  
the Not I and Eco RI sites of a modified pT73 vector  
(Pharmacia). Library went through one round of  
normalization to a Cot = 5. Library constructed by  
M. Fatima Bonaldo. This library was constructed from the  
same tissue as the fetal heart library. Soares fetal heart

NBH19W."  
/db\_xref="taxon:9606"  
/clone\_id="364681"  
/clone\_lib="Soares fetal heart NBH19W"  
/sex="unknown"  
/dev\_stage="19 weeks"  
/lab\_host="DH10B (ampicillin resistant)"  
BASE COUNT 123 a 142 c 139 g 127 t 6 others  
ORIGIN

alignment\_scores:  
Quality: 197.50 Length: 120  
Ratio: 2.437 Gaps: 0  
Percent Similarity: 65.833 Percent Identity: 40.000

seq\_documentation\_block:

Align seg 1/1 to: AA024389 from: 1 to: 537

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7 AlameAlaProArgGlyCysIleValAlaValAlaPheAlaPheCysI 23
|||||
23 AACATGAGGCGCAGATGCTGATCTGCTGCTGCTGCTGATTAACAGT 72
|||||
23 erAspArgLeuGlyCysSerHisGlyAlaProValAlaProMetThrProT 40
|||||
73 CTTCCTCTCCAGCTGTTCAAAGAACTACAGACGCTCTGCTGCTGCTG 122
|||||
40 yLeuMetLeuGlyGlnProHisLysArgCysGlyAspLysPheTyrAsp 56
|||||
123 GACTGTGCTGTGACAGCGACACCC.AGGTGTGGGAGAACAGATCTACAC 171
|||||
57 ProLeuGlnHisCysCysTyrTrpAspAlaValAlaProLeuAlaArg 73
|||||
172 CCTTCAGACAGCTGTTGATGATGATGATGATGATGATGATGATGAT 221
|||||
73 rGlnTrpCysGlyAsn...CysThrPheArgValCysPheGlnGlnCysC 89
|||||
222 CCGCCCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 271
|||||
89 ySPro.....TTPThPheMetValLysLeu..... 97
|||||
272 GTGCCAGATCTTTTGGCCCCAGACAGAGTTCTTGTGAAGAGGTT 321
|||||
98 .....IleAsnGlnAsnCysAspSerAlaArgTyrSerAspAspArg 112
|||||
322 CTGGTATGAGATGCTGATGCTGATGCTGATGCTGATGCTGATGCTG 371
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112 uCysArgSer 115
|||||
372 ACCAAGGAGC 381
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seq\_name: gb\_est11:AA456254

seq\_documentation\_block:

LOCUS AA456254 523 bp mRNA EST 06-JUN-1997  
DEFINITION zx99d06.r1 Soares NBHMPU SI Homo sapiens cDNA clone 811883 5', mRNA  
ACCESSION AA456254  
NID 92179464  
KEYWORDS EST.  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE

1 (bases 1 to 523)  
Hillier,L., Allen,M., Bowles,L., Dubuque,T., Gelsel,G., Jost,S.,  
Kucaba,T., Lacey,M., Le,M., Lennon,G., Marra,M., Martin,J.,  
Moore,B., Schellenberg,K., Steptoe,M., Tan,F., Theising,B.,  
White,Y., Wylie,T., Waterston,R. and Wilson,R.